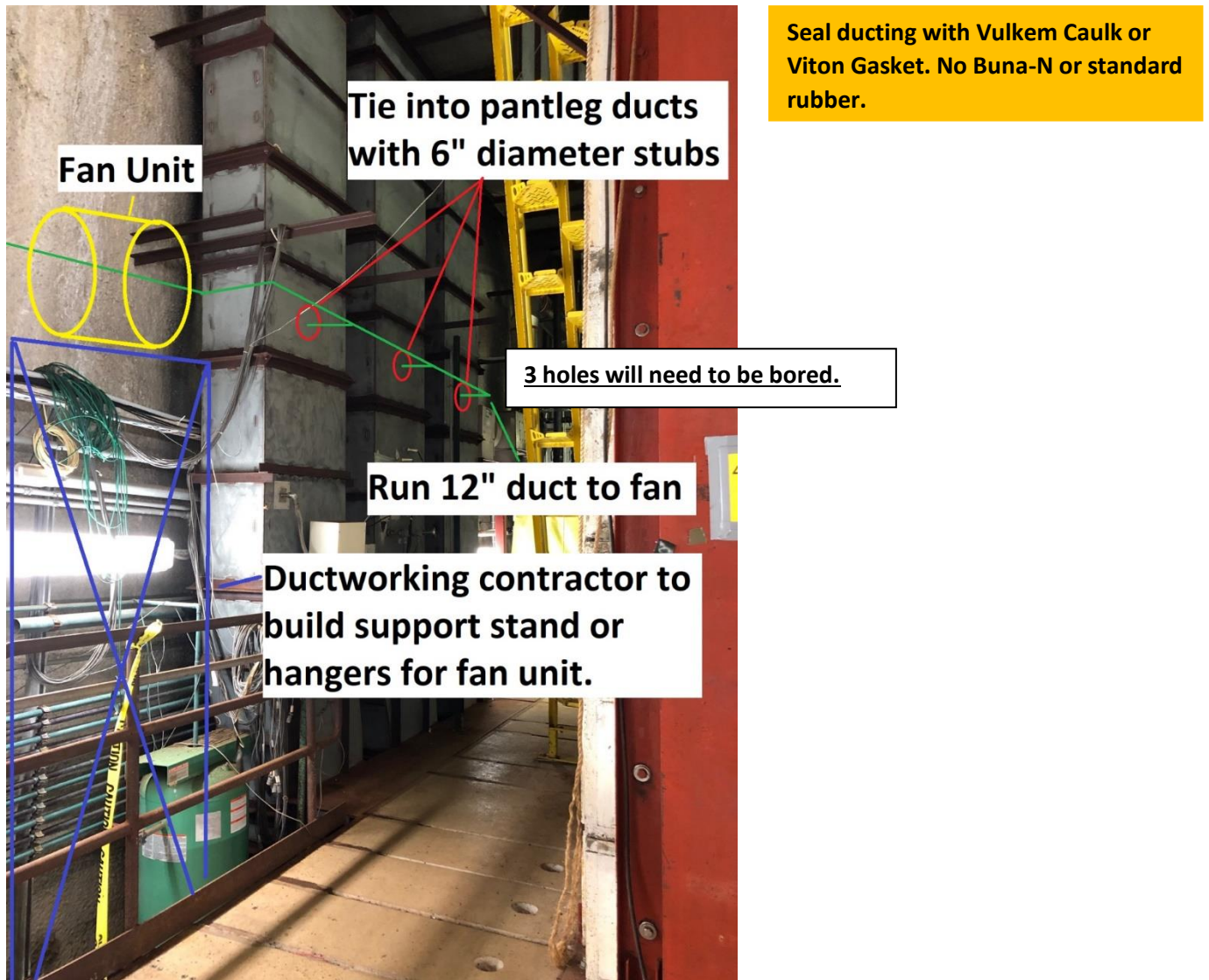


Statement of Work: Fermilab Air Diverter T-Block Ductwork, May 1, 2020

Install a HVAC duct system to provide air cooling to NuMI Horn 1 stripline, routed through the shielding penetration. All ducting to be made of 304 SS.

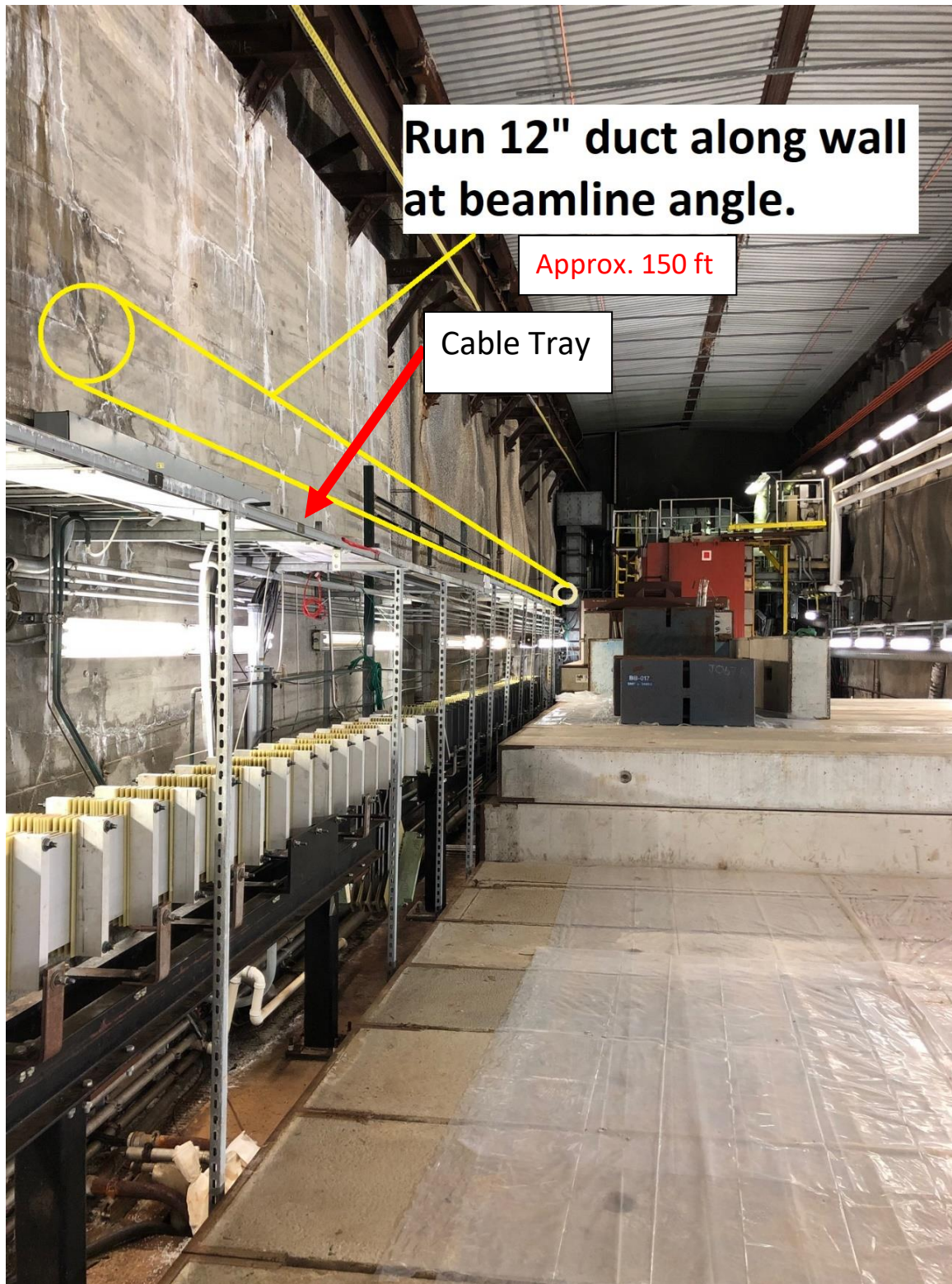
Location: NuMI Target Hall.

1. Attach the (Fermilab owned) fan to ductwork - need a stand built for it.

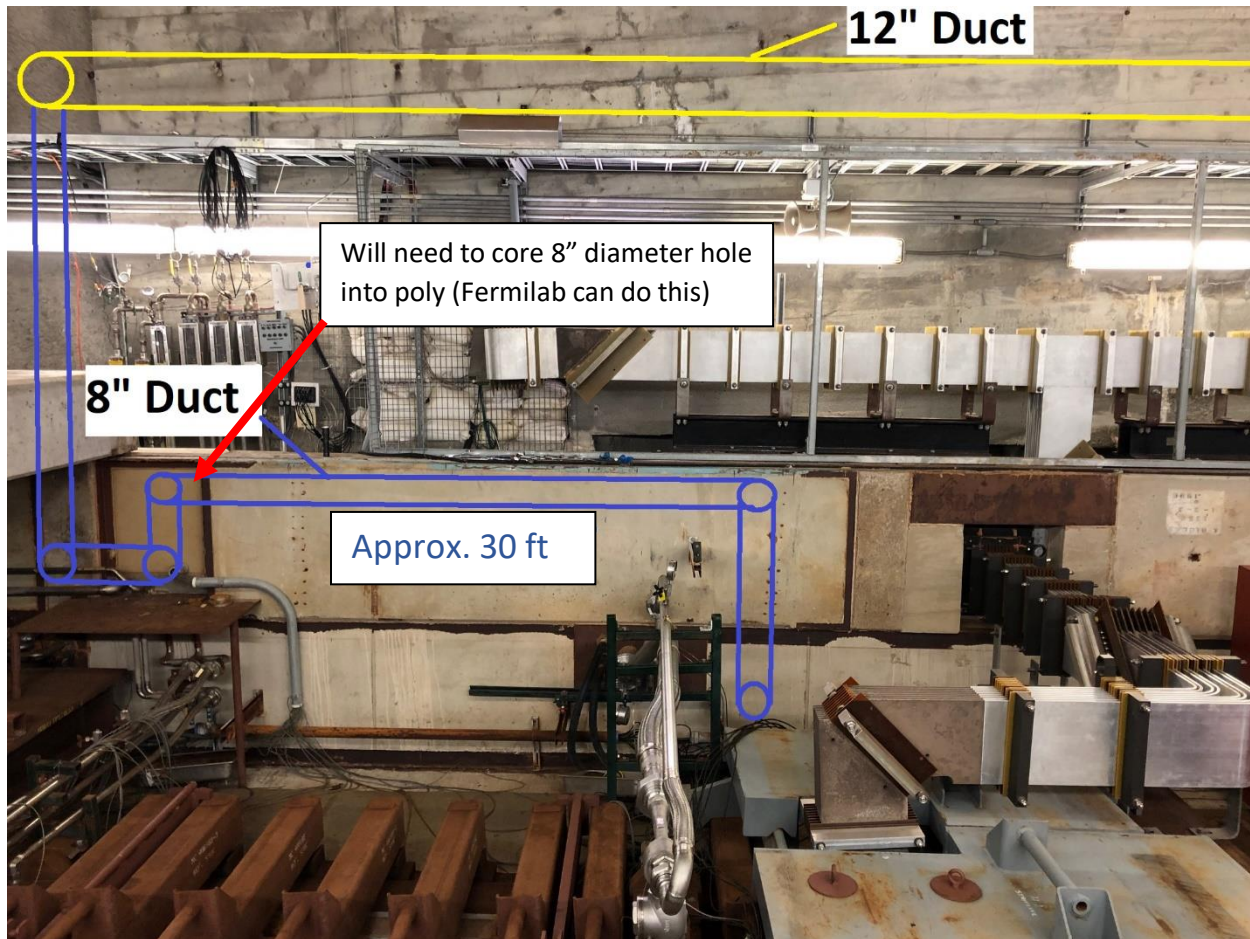


Design air flow rate is 600CFM and the **fan is on hand**. It has a damper on it to meter flow & needs to be set during commissioning. After the system is hooked up, a straight section of duct will need a 3/8" port so we can get an anemometer in to verify flow. There should be 12' of straight ductwork on either side of the port.

2. **12" duct routing work to the air handling system and other side of the fan, qty. 3 – mount approximately 150 feet of ducting to wall, or use cable tray for support (easier).**



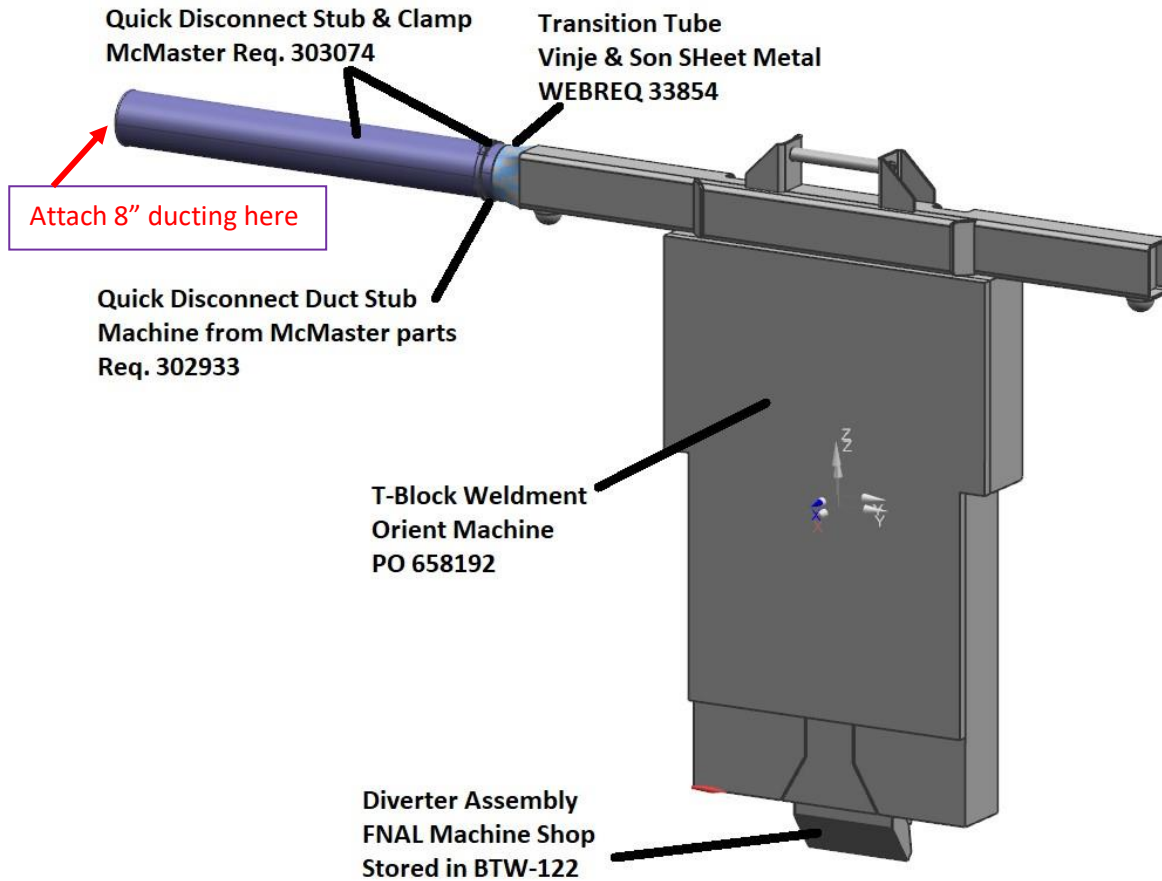
3. Approximately 30 feet of 8" duct routing work in embattlement - need a transition 12"-to-8", embattlement coring and sealing



4. Make connection to T-block - need:

- Transition tube already welded on the T-block
- Size 8" quick disconnect duct stub already welded to the transition tube
- quick-disconnect ductwork + duct clamps (on hand)

Everything Shown Here is already on hand



5. System commissioning - Instrumentation to ACNET: a current toroid for fan motor (Toroid provided by Fermilab)

